Technical data sheet

Flexible VFD Cable Type RHW-2 · shielded

LUTZE DRIVEFLEX XLPE (C) PVC
for Stationary Applications

Identification

Type	DR XLPE (C) PVC (4×AWG4)
Part No.	A2160404

Product version

Datasheet version	00

Use/Application/Properties

Application

- Dual-shielded motor supply cable to connect power to 3-phase-motors, VFDs and servo drives
- Cable design for harsh industrial environments and operating conditions with high noise levels
- Thermoset XLPE offering superior overload and short-circuit temperature
- Increased wall thickness insulation type RHW-2, offering lower capacitance and higher impedance making it ideal for applications with high voltage spikes and long cable run
- Compliant with NFPA 79 requirements
- TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments
- WTTC – wind turbine tray cable rating for use in wind power generation
- Dry, damp or wet conditions

Properties

- Flexible XLPE conductors
- High insulation resistance
- Low-capacitance cable
- Effective EMC-compatible shielding thanks to 2-layer shield
- Specially formulated jacket for oil resistance and easy strip design
- Non-wicking fillers
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Sunlight resistant
- Flame-retardant
- Direct burial
- Talc free and silicone free

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Construction

Description	DRIVEFLEX® XLPE (C) PVC
Number of conductors/cross-section	(4GAWG4)
Number of conductors	4
Cross-section, metric	25 mm²
Cross-section AWG	AWG 4
Jacket material	PVC
Jacket color	black similar to RAL 9005
Outer Ø	29.3 mm
Outer Ø	1.155 inch
Weight	167.5 kg/100 m
Weight	1126 Lbs/Mft
Cu-Index	632 Lbs/Mft

Construction Element 1

Element construction	AWG4/4C
Conductor construction	AWG 4 (413/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	fine wire Class K
Conductor marking	black • with white number print • green/yellow
Conductor insulation	XLPE RHW-2

Overall construction

Drain wire	CU-wire tin-plated
Overall shield	Foil shield tinned copper wires Braid shield optical cover approx. 80 %
Jacket characteristics	Oil resistant Silicone-free

Technical data

Rated voltage U_N	600 V 90C UL TC-ER-JP 1000 V Flexible VFD servo cable 90C 1000 V WTTC 90C Cable, 1000 V 105C AWM
Temperature range fixed	-40 °C … +105 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	AWG4/4C

Certifications/Standards

Certifications	UL Flexible Motor Supply Cable Flexible VFD Servo Cable TC-ER-JP WTTC UL DP-1 Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 Submersible Pump C(UL) TC and CIC FT4 UL 1277 P-07-KA130021-MSHA
UL style	AWM 20886
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU